

Receipt date: 03/09/2005

ATTY DOCKET NO.
40197-00536

10744020 - GAU: 3737
10/714,020

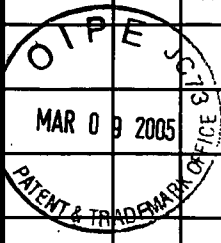
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

FILING
November 14, 2003

GROUP
1662

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A.	WO2004/046877A3	June 3, '04	HEIM, Warren P.	A61B	8/00	



FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

001	Boor, C. A Practical Guide to Splines. Springer-Verlag: New York, 1978. Pages xi-3, 108-115, 136-139, 154-161, 165-169, 235-239, 270-273.
002	Conte, Samuel D. and Carl de Boor. Elementary Numerical Analysis. McGraw-Hill: New York, 1980. Pages 235-253.

EXAMINER /John Ramirez/ (03/30/2010) DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 03/09/2005

Docket Number (Optional)

40197-00536

Application Number - GAU: 373

10/714,020

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant(s)

HEIM, Warren P.

Filing Date

November 14, 2003

Group Art Unit

3736

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

003	Hillier, Frederick S. and Gerald J. Lieberman. Introduction to Operations Research (Seventh Edition). McGraw-Hill: New York, 2001. Pages 697-699.
004	Fletcher, R. Practical Methods of Optimization (Second Edition). John Wiley & Sons: New York, 1987. Pages 110-119, 139-145, 277-297, 322-325, 357-389.
005	Bertsekas, Dimitri P. Constrained Optimization and Lagrange Multiplier Methods. Athena Scientific: Belmont, Massachusetts, 1996. Pages 1-11, 18-31, 34-51, 58-61, 66-105, 120-125, 158-167, 302-321, 358-381.
006	Bhatti, M. Asghar. Practical Optimization Methods. Springer-Verlag: New York, 1998. Pages 585-599.
007	Pollock, D.S.G. Handbook of Time Series Analysis, Signal Processing and Dynamics. Harcourt Brace Academic Press (ISBN: 0 1256 0990 6), 1999. http://alpha.qmul.ac.uk/~ugtel33/book/ Pages 3-17, 27-43, 227-244, 278-291, 365, 386-388, 513-547, 549-550, 555-573, 575-576, 583-593, 607-614, 637-643, 657-663, 667-681, 697-717.
008	Arnold, Douglas N. A Concise Introduction to Numerical Analysis. Published online. (2001). http://www.ima.umn.edu/~arnold/597.00-01/nabook.pdf Pages 1-34, 91-108, 196-206
009	Boyd, John P. Chebyshev and Fourier Spectral Methods (Second Edition). Dover Publications: Mineola, NY (ISBN: 0486411834), 2001. http://www-personal.engin.umich.edu/~jpbayd/aaabook.9500may00.pdf Pages 1-31, 61-96, 172-179, 202-209, 222-227, 425-430, 473-478.
010	Bretthorst, G. Larry. Bayesian Spectral Analysis and Parameter Estimation. Springer-Verlag: New York (ISBN: 0-387-96871-7), 1988. Pages 1-11, 31-35, 43-53, 70-86, 108-115, 179-181.
011	Helmberg, C. Semidefinite Programming for Combinatorial Optimization. ZIB-Report 00-34, Konrad-Zuse-Zentrum für Informationstechnik, Berlin (October 2000). Pages 25-37, 63-143.
012	Byrne, Charles L. Mathematics of Signal Processing, Published Online (August 28, 2003). http://faculty.uml.edu/cbyrne/master.pdf Pages 1-2, 13-15, 21-22, 41-45, 53-55, 65-69, 71-78, 83-84, 99-113, 115-118, 143-157, 163-167, 177-179, 181-195, 197-199, 201-207, 209-211, 219-227, 229-237, 239-250, 273-276.
101	Qi, Yuan, Thomas P. Minka, and Rosalind W. Picard. "Bayesian Spectral Estimation of Unevenly Sampled Nonstationary Data", 2002 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2002), IEEE, 2002.
102	Fischer, R. "The Adaptive Resolution Concept in Form-free Distribution Estimation", in W. Kluge, editor, Proceedings of the Workshop on Physics and Computer Science, Christian-Albrechts-University, Kiel, Germany, 1999. http://www.lpp.mpg.de/OP/Datenanalyse/Publications/Papers/fischer99b.ps

EXAMINER

/John Ramirez/ (03/30/2010)

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 40197-00536	Application Number 10/714,020
	Applicant(s) HEIM, Warren P.	
	Filing Date November 14, 2003	Group Art Unit 3736

*EXAMINER INITIAL	OTHER DOCUMENTS	(Including Author, Title, Date, Pertinent Pages, Etc.)
	103	Afify, Eldesoky E. "Comparison of Estimators of Parameters for the Rayleigh Distribution", Published online (2003), http://interstat.stat.vt.edu/InterStat/ARTICLES/2003/articles/U03001.pdf
	104	Andersen, Kim E. and Martin B. Hansen. "Multiplicative Censoring: Density Estimation by a Series Expansion Approach", <i>Journal of Statistical Planning and Inference</i> , 98 (2001) 137-155.
	105	Gray, Robert M. and David L. Neuhoff. "Quantization", <i>IEEE Transactions on Information Theory</i> , 44:6 (October 1998) 1-63.
	106	Bercher, Jean-François and Christophe Vignat.. "Estimating the Entropy of a Signal with Applications", <i>IEEE Transactions on Signal Processing</i> , 48:6 (June 2000) 1687-1694
	107	Le Besnerais, G., J.-F. Bercher, and G. Demoment G. "A New Look at the Entropy for Solving Linear Inverse Problems", (1994), http://citeseer.ist.psu.edu/rd/43454121%2C359896%2C1%2C0.25%2CDownload/http://citeseer.ist.psu.edu/compress/0/papers/cs/4080/ftp:zSzzSzfzftp.supelec.frzSzlszSzReportszSzBercherzSzThesis95zSzAnnexeG.ps.gz/lebesnerais94new.ps
	108	Rojas, Marielba. A Large-Scale Trust-Region Approach to the Regularization of Discrete Ill-Posed Problems. Ph.D. thesis, Rice University (1998). http://citeseer.ist.psu.edu/rd/83232819%2C438834%2C1%2C0.25%2CDownload/ftp%3AqSqqSqftp.caam.rice.eduSqpubqSqpeopleqSqmrojasqSqthesis.ps.gz
	109	Kilmer, Misha E. and Dianne P. O'Leary. "Choosing Regularization Parameters in Iterative Methods for Ill-Posed Problems" <i>SIAM J. on Matrix Analysis and Applications</i> , 22 (2001) 1204-1221
	110	Schäfer, Hartmut, "Inverse Ill-posed Problems in Experimental Data Analysis in Physics", <i>Physics in Canada</i> (1997). http://www.physics.brocku.ca/faculty/sternin/ip.ps
	111	Liu, Yangang and W. Patrick Arnott, and John Hallett. "Particle Size Distribution Retrieval from Multispectral Optical Depth: Influence of Particle Nonsphericity and Refractive Index", <i>J. Geophys. Res.</i> 104 (1999) 31753-31762.
	112	Powell, M.J.D. "Direct Search Algorithms for Optimization Calculations", <i>Acta Numerica</i> 7, (1998) 287-336.
	113	Musicant, David R. and Alexander Feinberg. "Active Set Support Vector Regression", <i>IEEE Transactions on Neural Networks</i> 15 (March 2004) 268-275. http://www.cs.wisc.edu/~musicant/tr0102.ps
	114	Helmborg, C. and K.C. Kiwiel. "A Spectral Bundle Method with Bounds", <i>Mathematical Programming</i> 93 (2002) 173-194. http://citeseer.ist.psu.edu/rd/43454121%2C360001%2C1%2C0.25%2CDownload/http://citeseer.ist.psu.edu/compress/0/papers/cs/12460/ftp:zSzzSzfzftp.zib.dezSzpubzSzib-publicationszSzreportszSzSC-99-37.ps.gz/helmborg99spectral.ps

EXAMINER <p style="text-align: center;">/John Ramirez/ (03/30/2010)</p>	DATE CONSIDERED
--	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) 40197-00536	Application Number 10/714,020
Applicant(s) HEIM, Warren P.	
Filing Date November 14, 2003	Group Art Unit 3736

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
115	Fortin, Charles. A Survey of the Trust Region Subproblem within a Semidefinite Framework, Masters Thesis, University of Waterloo (2000).
116	Byrd, Richard H. and Jorge Nocedal. "Active Set and Interior Methods for Nonlinear Optimization", Doc.Math.J.DMV Extra Volume ICM III (1998) 667-676. http://citeseer.ist.psu.edu/rd/43454121%2C252133%2C1%2C0.25%2CDownload/http://citeseer.ist.psu.edu/compress/0/papers/cs/11516/http:zSzzSzwwww.mathematik.uni-bielefeld.dezSzdokumentazSzvol-icmzSz17zSzNocedal.MAN.ps.gz/active-set-and-
117	Symes, William W. "Extremal Regularization", http://www.caam.rice.edu/caam/trs/99/TR99-07.ps 1999
118	Fletcher, Roger and Sven Leyffer. "Nonlinear Programming Without a Penalty Function", Dundee Numerical Analysis Report NA/171, revised version (August 2000). http://citeseer.ist.psu.edu/rd/43454121%2C471645%2C1%2C0.1%2CSource/http%3AqSqqSqwww.maths.dundee.ac.ukqSq%7EfletcherqSq
119	Baryamureeba, Venansius, On Solving Large Sparse Linear Systems arising from Linear Programming and Linear Regression, Dr. S. Thesis, University of Bergen, Norway (March 2000).
120	Byrd, Richard H. and Marcello Marazzi, and Jorge Nocedal. "On the Convergence of Newton Iterations to Non-Stationary Points", Report OTC 2001/01, Optimization Technology Center, Northwestern University, Evanston, IL. (March 22, 2002). http://www.cs.colorado.edu/~richard/failofconv.ps
121	Dias, Fabio Silva, "Quadratic Programming Applied to Modern Portfolio Selection", Published online. http://www.linux.ime.usp.br/~cef/mac499-01/monografias/fdias-rec/QP.pdf
122	MacMillan, Daniel, Relaxing Convergence Conditions to Improve the Convergence Rate, Ph.D. Thesis, University of Colorado at Denver (1999). http://citeseer.ist.psu.edu/rd/64973575%2C72603%2C1%2C0.25%2CDownload/http://citeseer.ist.psu.edu/compress/0/papers/cs/6842/http:zSzzSzwwww-math.cudenver.eduzSzgraduatezSzthesiszSzmacmillan.ps.gz/macmillan99relaxing.ps
123	Vandenbergh, Lieven and Stephen Boyd. "Semidefinite Programming", SIAM Review 38: 1 (March 1996) 49 - 95.
124	Berkelaar, Arjan B., Benjamin Jansen, Kees Roos, and Tamas Terlaky. "Sensitivity Analysis in (Degenerate) Quadratic Programming", No 30 in Econometric Institute Report from Erasmus University Rotterdam, Econometric Institute(1996). http://www.eur.nl/WebDOC/doc/econometrie/eeb19960111120022.ps
125	Santarelli, Maria Filomena and Luigi Landini, "A Model of Ultrasound Backscatter for the Assessment of Myocardial Tissue Structure and Architecture", IEEE Transactions on Biomedical Engineering, 43:9 (September 1996) 901-911.
126	Hammer, Martin, Anna N. Yaroslavskyna, and Dietrich Schweitzer. "A Scattering Phase Function for Blood with Physiological Haematocrit", Physics in Medicine and Biology 46 (2001) N65-N69.

EXAMINER /John Ramirez/ (03/30/2010)	DATE CONSIDERED
---	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 40197-00536	Application Number 10/714,020
	Applicant(s) HEIM, Warren P.	
	Filing Date November 14, 2003	Group Art Unit 3736

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
127	Fontaine, Isabelle, Michel Bertrand, and Guy Cloutier. "A System-Based Approach to Modeling the Ultrasound Signal Backscattered by Red Blood Cells", Biophysical Journal 77 (1999) 2387-2399.
128	Wang, Tao and Jafar Sanije. "Analysis of Low-Order Autoregressive Models for Ultrasonic Grain Signal Characterization", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 38:2 (1991) 116-124
129	Baldeweck, T. and P. Laugier, A. Herment, and G. Berger. "Application of Autoregressive Spectral Analysis for Ultrasound Attenuation Estimation: Interest in Highly Attenuating Medium", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 42:1 (1995) 99-110
130	Wójcik, Janusz. "Conservation of Energy and Absorption in Acoustic Fields for Linear and Nonlinear Propagation", Journal Acoustical Society of America 104: 5 (November 1998) 2654-2663.
131	He, Ping. "Determination of Ultrasonic Parameters Based on Attenuation and Dispersion Measurements", Ultrasonic Imaging 20 (1998) 275-287.
132	Varghese, Tomy. "Estimating Mean Scatter Spacing with Frequency-Smoothed Spectral Autocorrelation Function", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 42:3 (1995) 451-463.
133	Chen, Jian-Feng and James A. Zagzebski. "Frequency Dependence of Backscatter Coefficient Versus Scatterer Volume Fraction", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 43:3 (1996) 345-353.
134	Wear, K. A., R.F. Wagner, and B.S. Garra. "High Resolution Ultrasonic Backscatter Coefficient Estimation Based on Autoregressive Spectral Estimation Using Burg's Algorithm", IEEE Transactions on Medical Imaging 13: 3 (1994) 500-507.
135	Wear, Keith A. "The Effects of Frequency-Dependent Attenuation and Dispersion on Sound Speed Measurements: Applications in Human Tabecular Bone", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 47:1 (2000) 265-273.
136	Donohue, Kevin D. "Maximum Likelihood Estimation of A-Scan Amplitudes for Coherent Targets in Media of Unresolvable Scatterers", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 39:3 (1992) 422-431.
137	Filipczyński, L., T. Kujawska, R. Tymkiewicz, and J. Wójcik. "Nonlinear and Linear Propagation of Diagnostic Ultrasound Pulses", Ultrasound in Medicine and Biology 25:2 (1999) 285-299.
138	Narayanan, V. Manoj and P.M. Shankar. "Non-Rayleigh Statistics of Ultrasonic Backscattered Signals", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 41:6 (1994) 845-852.

EXAMINER <p style="text-align: center;">/John Ramirez/ (03/30/2010)</p>	DATE CONSIDERED
--	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 03/09/2005		Docket Number (Optional) 40197-00536	Application Number 10/714,020
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant(s) HEIM, Warren P.	
		Filing Date November 14, 2003	Group Art Unit 3736

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
139	Kutay, M. Alper, Athina P. Petropulu, and Catherine W. Piccoli. "On Modeling Biomedical Ultrasound RF Echoes Using a Power-Law Shot-Noise Model", work sponsored by NIH grant CA-52823 and NSF grant MIP-9553227. October 1998 and June 2000.
140	Donohue, Kevin D., John M. Bressler, Tomy Varghese, and Nihat M. Bilgutay. "Spectral Correlation in Ultrasonic Pulse Echo Signal Processing", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 40:4 (1993) 330-337.
141	Girault, Jean-Marc, Frédéric Ossant, Abdeljalil Ouahabi, Denis Kouamé, and Frédéric Patat. "Time-varying Autoregressive Spectral Estimation for Ultrasound Attenuation in Tissue Characterization", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 45:3 (1998) 650-659.
142	Erikson, Kenneth R., Francis J. Fry, and Joie P. Jones. "Ultrasound in Medicine-A Review", IEEE Transactions on Sonics and Ultrasonics, us-21:3 (1974) 144-170.
143	Marple Jr., S. Lawrence. "A Tutorial Overview of Modern Spectral Estimation", IEEE CH2673-2/89/0000-2152 (1989).
144	Jensen, Jørgen Arendt. "An Analysis of Pulsed Wave Ultrasound Systems for Blood Velocity Estimation", presented at Acoustical Imaging 22 (1995). http://www.es.oersted.dtu.dk/ftp/bme/conferences/1995/jaj_ai_1995.ps
145	Hong, X., P.M. Sharkey, and K. Warwick. "Automatic Nonlinear Predictive Model-construction Algorithm Using Forward Regression and the PRESS Statistic", IEEE Proc.-Control Theory Appl. 150:3 (May 2003) 245-254
146	Chen, Yang. Bayesian Time Series: Financial Models and Spectral Analysis. Ph.D. Thesis, Duke University (1997). http://ftp.stat.duke.edu/Theses/yang.ps.gz Pages iv-v, 1-47, 61-102, 106-132.
147	Jenet, F.A. and T.A. Prince. "Detection of Variable Frequency Signals Using a Fast Chirp Transform", Physical Review D (Particles, Fields, Gravitation, and Cosmology) 62 (2000) 122001. http://arxiv.org/PS_cache/gr-qc/pdf/0012/0012029.pdf
148	Güler, Enan, Firat Hardalaç, and Serdar Müldür. "Determination of Aorta Failure with the Application of FFT, AR and Wavelet Methods to Doppler Technique", Computers in Biology and Medicine 31 (2001) 229-238.
149	Übeyli, Elif Derya and Enan Güler. "Determination of Stenosis and Occlusion in Arteries with the Application of FFT, AR, and ARMA Methods", Journal of Medical Systems 27:2 (April 2003) 105-120.
150	Nus, Patrice, Olivier Caspary, and Francois Devillard. "DSP-Based Sliding Hartley Transform for Real-Time Spectral Analysis with Zoom Effect", ICSPAT'96 - 7th International Conference on Signal Processing Applications & Technology, Boston, (October 7-10,1996) vol. 1, 151-154.

EXAMINER /John Ramirez/ (03/30/2010)	DATE CONSIDERED
---	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 03/09/2005		Docket Number (Optional) 40197-00536	Application Number 10/714,020
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Applicant(s) HEIM, Warren P.	
		Filing Date November 14, 2003	Group Art Unit 3736
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
151	Molgedey, Lutz and Elvis Galic. "Extracting Factors for Interest Rate Scenarios", The European Physical Journal B, 20:4 (April 2001) 517-522. http://summa.physik.hu-berlin.de/papers/LutzMolgedey/yieldcurve.ps.gz		
152	Amaldi, Edoardo and Marco Mattavelli. "A Combinatorial Optimization Approach to Extract Piecewise Linear Structure from Nonlinear Data and an Application to Optical Flow Segmentation", Technical Report 97-12, Cornell Computational Optimization Project (CCOP), Cornell University, New York, School of Operations Research and Industrial Engineering, Cornell University, 1997.		
153	Morelli, Eugene A. "High Accuracy Evaluation of the Finite Fourier Transform Using Sampled Data", NASA Technical Memorandum 110340, National Aeronautics and Space Administration, Langley Research Center, Hampton, VA (June 1997). http://techreports.larc.nasa.gov/ltrs/PDF/1997/tm/NASA-97-tm110340.pdf		
154	Allam, Mahmaud E. and James F. Greenleaf. "Isomorphism Between Pulsed-Wave Doppler Ultrasound and Direction-of-Arrival Estimation-Part I: Basic Principles", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control 43:5 (1996) 911-922.		
155	Keeton, P.I.J. and F.S. Schlindwein. "Spectral Broadening of Clinical Doppler Signals Using FFT and Autoregressive Modelling", European Journal of Ultrasound 7 (1998) 209-218.		
156	Bailey, David H. and Paul N. Swarztrauber. "The Fractional Fourier Transform and Applications", SIAM Review 33:3 (September 1991) 389-404. http://crd.lbl.gov/~dhbailey/dhbpapers/fracFFT.pdf		
157	Mordant, Nicolas and Jean-François Pinton. "Time Resolved Tracking of a Sound Scatterer in a Complex Flow: Non-stationary Signal Analysis and Applications", The Journal of the Acoustical Society of America, 112:1 (2002) 108-118. http://arxiv.org/PS_cache/physics/pdf/0103/0103083.pdf		
158	Hansen, P.C. "The L-curve and its Use in the Numerical Treatment of Inverse Problems", Computational Inverse Problems in Electrocardiology, ed. P. Hohnston, Advances in Computational Bioengineering, Volume 4. WIT Press, Southampton (2000), 119-142. http://www.imm.dtu.dk/documents/ftp/tr99/tr15_99.pdf		
159	Bell, B.M. and D.B.Percival. "A Two Step Burg Algorithm", IEEE Transactions on Signal Processing, 39:1 (January 1991) 185-189.		
160	Broersen, Piet M. T. "Automatic Spectral Analysis with Time Series Models", IEEE Transactions on Instrumentation and Measurement, 51:2 (April 2002) 211-216		
161	Broersen, Piet M.T. "Autogressive Model Orders for Durbin's MA and ARMA Estimators", IEEE Transactions on Signal Processing, 48:8 (August 2000) 2454-2457		
162	Güler, I., F. Hardalaç and F.S. Erol. "Comparison of FFT, AR and Wavelet Methods in Transcranial Doppler Signal Obtain from Intracerebral Vessels" 2001 Proceedings of the 23rd Annual EMBS International Conference, Istanbul, Turkey (October 25-28, 2001) 1832-.1834.		
EXAMINER	/John Ramirez/ (03/30/2010)		DATE CONSIDERED
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Receipt date: 03/09/2005		Docket Number (Optional) 40197-00536	Application Number 10/714,020
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Applicant(s) HEIM, Warren P.	
		Filing Date November 14, 2003	Group Art Unit 3736
*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	163	Durbin, J. "Efficient Estimation of Parameters in Moving-Average Models", <i>Biometrika</i> , 46:3/4 (December 1959), 306-316.	
	164	Broersen, Piet M. T. "Facts and Fiction in Spectral Analysis", <i>IEEE Transactions on Instrumentation and Measurement</i> , 49:4 (August 2000) 766-772.	
	165	Broersen, P. M. T. "Facts and Fiction in Spectral Analysis of Stationary Stochastic Processes", S. Theodoridis, I. Pitas, A. Stouraitis, N. Kalouptsidis (eds.); <i>Signal Processing IX: Theories and Applications, Proceedings Eusipco Conference, Rhodes, Greece, (1998) 61-64. ISBN: 9607620062</i>	
	166	Broersen, Piet M.T. "Finite Sample Criteria for Autoregressive Order Selection", <i>IEEE Transactions on Signal Processing</i> , 48:12 (December 2000) 3550-3558.	
	167	Ruano, M. Graça. "Numerical Techniques for Modeling Doppler Ultrasound Spectral Systems", <i>Journal of Computational Acoustics</i> , 9:3 (2001) 805-814.	
	168	Stetsen, Paul F. and Jørgen Arendt Jensen. "Real-Time Blood Flow Estimation Using a Recursive Least-Squares Lattice Filter", <i>IEEE Ultrasonics Symposium Proceedings, (October 1997) 1259-1262.</i> http://www.es.oersted.dtu.dk/ftp/bme/conferences/1997/pfs_jaj_ieee_symp_1997.pdf	
	169	Broersen, P.M.T. "The Quality of Models for ARMA Processes", <i>IEEE Transactions on Signal Processing</i> , 46:6 (June 1998) 1749-1752.	
	170	Helmberg, Christoph and Franz Rendl. "A Spectral Bundle Method for Semidefinite Programming", <i>SIAM Journal on Optimization</i> , 10:3 (2000) 673-696	
	171	Nash, Stephen G. and Ariela Sofer, "Why Extrapolation Helps Barrier Methods", (1998) http://bass.gmu.edu/~asofer/nash13.ps	
	172	Neumaier, Arnold. "Solving Ill-conditioned and Singular Linear Systems: A Tutorial on Regularization", <i>SIAM Review</i> , 40 (1998), 636-666. http://www.mat.univie.ac.at/~neum/ms/regtutorial.pdf	
	173	Cvetkovif, Zoran and Martin Vetterli, "Error Rate Characteristics of Oversampled Analog-to-digital Conversion", <i>IEEE Transactions on Information Theory</i> , 44:5 (September 1998) 1961-1964.	
	174	Voutilainen, Arto. <i>Statistical Inversion Methods for the Reconstruction of Aerosol Size Distributions</i> , Ph.D. Thesis, University of Kuopio (2001). 24-25.	
EXAMINER	/John Ramirez/ (03/30/2010)		DATE CONSIDERED
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Receipt date: 03/09/2005

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

40197-00536

Application Number

10/714,020

Applicant(s)

HEIM, Warren P.

Filing Date

November 14, 2003

Group Art Unit

3736

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
175	Reginska, Teresa . "Regularization of Discrete Ill-posed Problems", Published online (September 2002) http://www.impan.gov.pl/Preprints/p630.pdf	
176	Watson, G.A. "Data Fitting Problems with Bounded Uncertainties in the Data", SIAM J Matrix Analysis and Applications, 22:4 (2001) 1274--1293. http://www.maths.dundee.ac.uk/~gawatson/35659.ps	
177	Schäfer, H., E. Sternin, R. Stannarius, M. Arndt, and F. Kremer.. "Novel Approach to the Analysis of Broadband Dielectric Spectra", Physical Review Letters, 76:12 (March 1996) http://www.uni-leipzig.de/~stann/papers/PRL02177.pdf	
178	Buttgereit, R., T. Roths, J. Honerkamp, and L. B. Aberle. "Simultaneous Regularization Method for the Determination of Radius Distributions from Experimental Multiangle Correlation Functions", Physical Review E, 64:4 (Statistical, Nonlinear, and Soft Matter Physics) (October 2001) 041404-1 to 041404-10. http://www.ifam.fhg.de/2804/indkt/klebchem/licht/literatur/multiangle_correlation_functions.pdf	
179	Kilmer, Misha and G. W. Stewart. "Iterative Regularization and MINRES", SIAM J Matrix Analysis and Applications, 21:2 (1999) 613-628. http://www.tufts.edu/~mkilme01/papers/minres.pdf.gz	
180	Chandrasekaran S., G. Golub, M. Gu, and A. H. Sayed, "An Efficient Algorithm for a Bounded Errors-in-variables Model", SIAM J Matrix Analysis and Applications, 20:4 (October 1999) 839-859. http://www.ee.ucla.edu/asl/publications/journal_articles/simax_oct_1999.pdf	
181	Rojas, M. and D.C. Sorensen. "A Trust-Region Approach to the Regularization of Large-Scale Discrete Ill-Posed Problems". Technical Report TR99-26, Department of Computational and Applied Mathematics, Rice University, (1999, Revised 2001). Also published in SIAM Journal on Scientific Computing, 23:6 (2002) 1842-1860.	
182	Birbil, S. Ilker, Shu-Cherng Fang, and Jiye Han. "Entropic Regularization Approach for Mathematical Programs with Equilibrium Constraints", ERIM Report Series Reference No. ERS-2002-71-LIS. Erasmus Research Institute of Management, Erasmus Universiteit, Rotterdam (March 11, 2003). http://papers.ssrn.com/sol3/Delivery.cfm/222.pdf?abstractid=371020	
183	de Waele, S. and P.M.T. Broersen. "Spectral Analysis of Segmented Data", Proceedings of CDC 2000, Conference on Decision and Control, Sydney, Australia, December 2000, (2000) 189-190. http://www.dsc.tudelft.nl/Research/PubSSC/dsis/publications/deWaele_S/SpecSegCDC00.pdf	
184	Broersen, P.M.T and S. de Waele, "Windowed Periodograms and Moving Average Models", Proceedings of CDC 2000, Conference on Decision and Control, Sydney, Australia, December 2000, (2000) 2706-2709. http://www.dsc.tudelft.nl/Research/PubSSC/dsis/publications/deWaele_S/WperMACDC00.pdf	
185	Pardey, J., S. Roberts, and L. Tarassenko, "A Review of Parametric Modelling Techniques for EEG Analysis", Med Eng Phys 18:1 (1996) 2-11. http://citeseer.ist.psu.edu_cache_papers_cs_902_http_zSzzSzwww.ee.ic.ac.ukzSzhpzSzstaffzSzsjrobzSzPubzSzjmep.pdf_pardey96review	
186	Elter, Peter; Eric Seiter, Torsten Karch, Wilhelm Stork, Klaus D. Mueller-Glaser, and Norbert Lutter. "Noninvasive Real Time Laser Doppler Flowmetry in Perfusion Regions and Larger Vessels", SPIE Proceedings Vol. 3570 Biomedical Sensors, Fibers, and Optical Delivery Systems ISBN: 0-8194-3032-3 (1999) 244-254.	
EXAMINER	/John Ramirez/ (03/30/2010)	
	DATE CONSIDERED	

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 03/09/2005

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

40197-00536

Application Number

10/714,020

Applicant(s)

HEIM, Warren P.

Filing Date

November 14, 2003

Group Art Unit

3736

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

187	Kaluzynski, Krzysztof. "Minimum Variance Method in Spectral Analysis of Ultrasonic Doppler Blood Flow Velocity Signal", IEEE Engineering in Medicine & Biology Society 11th Annual International Conference, 0071 CH2770-6/89/0000-0071 (1989).
188	Oung, Harry and J.M. Reid. "The Analysis of Nonstationary Doppler Spectrum Using a Modified Wigner Distribution", Annual International Conference of the IEEE Engineering in Medicine and Biology Society 12:1 (1990) 460-461.
189	Bastos, Carlos A.C., Peter J. Fish, and Francisco Vaz. "Acceleration Effects in Doppler Ultrasound Signals from Pulsatile Flow", Proceedings 19th International Conference IEEE/EMBS Chicago, IL., 0-7803-42-3/97. (1997) 238-241.
190	Yeh, Chih-Kuang and Pai-Chi Li. "Doppler Angle Estimation Using the AR Spectrum Model", 2000 IEEE Ultrasonics Symposium 0-7803-6365-5/00, (2000) 1513-1516.
191	Marple, S. Lawrence. "Time-Frequency Signal Analysis: Issues and Alternative Methods", Proceedings of the IEEE 0-7803-5073-1/98, (1998) 329-332.
192	David, Jean-Yves, Steven A. Jones, and Don P. Giddens. "Modern Spectral Analysis Techniques for Blood Flow Velocity and Spectral Measurements with Pulsed Doppler Ultrasound", IEEE Transactions on Biomedical Engineering, 38:6 (June 1991) 589-596.
193	Aldis, Geoffrey K. and Rosemary S. Thompson. "Calculation of Doppler Spectral Power Density Functions", IEEE Transactions on Biomedical Engineering, 39:10 (October 1992) 1022-1030.
194	Forsberg, Flemming. "194. On the Usefulness of Singular Value Decomposition—ARMA Models in Doppler Ultrasound", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 38:5 (1991) 418-428.
195	Li, Pai-Chi, Chen Chong-Jing, and Che-Chou Shen. "Doppler Angle Estimation Using Correlation", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 347:1 (2000) 188-196.
196	Ahn, Young Bok and Song Bai Park. "Estimation of Mean Frequency and Variance of Ultrasonic Doppler Signal by Using Second-Order Autoregressive Model, IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 38:3 (1991) 172-182.
197	Palmer, Robert D., J.R. Cruz, and Dusan S. Zraic. "Enhanced Autoregressive Moving Average Spectral Estimation Applied to the Measurement of Doppler Spectral Width", IEEE Transactions on Geoscience and Remote Sensing, 29:3 (1991) 358-368.
198	Loupas, Thanasis and W. Norman McDicken. "Low-Order Complex AR Models for Mean and Maximum Frequency Estimation in Context of Doppler Color Flow Mapping", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 37:6 (1990) 590-601.

EXAMINER

/John Ramirez/ (03/30/2010)

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 03/09/2005 INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 40197-00536	Application Number 10/714,020
Applicant(s) HEIM, Warren P.		
Filing Date November 14, 2003		Group Art Unit 3736

*EXAMINER INITIAL		OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
199		Yeh, Chih-Kuang and Li, Pai-Chi. "Doppler angle estimation using AR modeling", IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 49:6 (2002) 683-692.
200		Bascom, Peter A.J. and Richard S.C. Cobbold. "Origin of the Doppler Ultrasound Spectrum from Blood", IEEE Transactions on Biomedical Engineering, 43:6 (1996) 562-571.

EXAMINER /John Ramirez/ (03/30/2010)	DATE CONSIDERED
---	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.